

# 20CS2016L Database Systems Lab – B3 URK21CS1128

Ex No: 02	BASIC SQL COMMANDS
Date	01.08.2023

## Aim:

To execute all the basic SQL commands such as select, insert, update and delete.

## Description:

The basics SQL commands are

- I. Select Statement: To select the data from a table.  
Syntax: select column\_1, column\_2 from table\_name;
- II. Insert Statement: To insert the values into a particular table.  
Syntax: insert into table\_name values (value1, value2);
- III. Update Statement: To Update the records or values in the table.  
Syntax: update tablename set columnname = value where condition;
- IV. Delete Statement: To delete an entire row and to delete a particular value in the table.  
Syntax: delete from tablename;  
Syntax: delete from tablename where condition;
- V. Create Statement: To create a table with specified columns with specified datatypes.  
Syntax: create table table\_name(column\_1, column\_2, column\_3);
- VI. Drop Statement: To delete a entire table with the existing data.  
Syntax: drop table table\_name;
- VII. Alter Statement: To alter a table like adding, modifying and dropping the column.  
Syntax: alter table table\_name add column\_5;

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## Basic SQL Commands Questions:

**User Table:**

UserID	Name	Email	Password	Phone
1	John Smith	john.smith@example.com	password1	12345678901
2	Jane Doe	jane.doe@example.com	p@ssw0rd	98765432101
3	Michael Lee	michael.lee@example.com	12345678	44332211000
4	Sarah Adams	sarah.adams@example.com	sAdams123	11223344556
5	David Wang	david.wang@example.com	dWang2023	65432109876
6	Emily Chen	emily.chen@example.com	chen123	91827364560
7	Alex Kim	alex.kim@example.com	kimAlex22	55566677788
8	Lisa Lopez	lisa.lopez@example.com	lisa123	99900011122

**Event Table:**

EventID	Name	Date	Time	VenueID	Description
1	Concert in Park	15-08-2023	18:00	101	Enjoy a live concert in the city park.
2	Movie Night	20-08-2023	20:30	102	Movie night under the stars.
3	Sports Tournament	05-09-2023	14:00	103	Join us for an exciting sports tournament.
4	Art Exhibition	10-09-2023	12:00	104	Explore various artworks by local artists.
5	Food Festival	25-09-2023	11:00	105	A celebration of diverse cuisines.
6	Comedy Show	01-10-2023	19:30	106	Laugh your heart out at our comedy show.
7	Tech Conference	15-10-2023	09:00	107	Join tech experts for informative sessions.
8	Dance Workshop	05-11-2023	16:00	108	Learn various dance styles in this workshop.

VenueID	Name	Address	City	State	Country
101	City Park	123 Park Street	New York	NY	USA
102	Open Field	456 Meadow Lane	Los Angeles	CA	USA
103	Sports Arena	789 Stadium Road	Chicago	IL	USA
104	Art Gallery	101 Art Avenue	San Francisco	CA	USA
105	Event Center	555 Celebration Boulevard	Miami	FL	USA
106	Comedy Club	777 Laughter Street	Houston	TX	USA
107	Convention Center	999 Tech Avenue	Seattle	WA	USA
108	Dance Studio	222 Rhythm Road	Boston	MA	USA

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Event table:

TicketID	EventID	UserID	SeatNumber	Price	Status
1	1	1	A1	25	Booked
2	1	2	B2	25	Booked
3	2	3	C3	15	Booked
4	2	4	D4	15	Booked
5	3	5	A2	10	Booked
6	3	6	B3	10	Booked
7	4	7	C4	8.5	Booked
8	4	8	D5	8.5	Booked

**Questions:**

1. Retrieve the details of users whose names contain "Smith."

Query: select \* from user\_1128 where Name like '%smith';

```
SQL> SELECT * FROM User_1128 WHERE Name LIKE '%Smith%';
      1
John Smith
john.smith@example.com
password1
12345678901
```

2. Display the details of users whose passwords are not equal to "password1."

Query: select \* from user\_1128 where Password !='password1';

```
SQL> SELECT * FROM User_1128 WHERE Name LIKE '%Smith%';
1
John Smith
john.smith@example.com
password1
12345678901

SQL> SELECT * FROM User_1128 WHERE Password <> 'password1';
2
Jane Doe
jane.doe@example.com
p@ssw0rd
98765432101

3
Michael Lee
michael.lee@example.com
12345678
44332211000

4
Sarah Adams
sarah.adams@example.com
sAdams123
11223344556

5
David Wang
david.wang@example.com
dWang2023
65432109876

6
Emily Chen
emily.chen@example.com
chen123
91827364560

8
Lisa Lopez
lisa.lopez@example.com
lisa123
99900011122

7 rows selected.
```

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3. Display the details of users whose email addresses end with "@example.com" and have a phone number starting with "+9876."

Query: select \* from user\_1128 where email like '@example.com' and phone like '9876%';

```
SQL> SELECT * FROM User_1128 WHERE Email LIKE '@example.com' AND Phone LIKE '9876%';  
no rows selected
```

4. Display the details of users whose UserID is either 2, 4, or 6.

Query: select \* from user\_1128 where user\_ID in (2,4,6);

```
SQL> SELECT * FROM User_1128 WHERE UserID IN (2, 4, 6);  
      2  
Jane Doe  
jane.doe@example.com  
p@ssw0rd  
98765432101  
  
      4  
Sarah Adams  
sarah.adams@example.com  
sAdams123  
11223344556  
  
      6  
Emily Chen  
emily.chen@example.com  
chen123  
91827364560
```

5. Retrieve the details of events that are scheduled to take place after September 15, 2023.

Query: select \* from event\_1128 where date\_e > '15-Sep-2023';

```
SQL> select * from event_1128 where Eventdate > '15-Sep-2023';
5
Food Festival
25-SEP-23 25-SEP-23 11.00.00.000000 AM
105
A celebration of diverse cuisines.

6
Comedy Show
01-OCT-23 01-OCT-23 07.30.00.000000 PM
106
Laugh your heart out at our comedy show.

7
Tech Conference
15-OCT-23 15-OCT-23 09.00.00.000000 AM
107
Join tech experts for informative sessions.

8
Dance Workshop
05-NOV-23 05-NOV-23 04.00.00.000000 PM
108
Learn various dance styles in this workshop.
```

6. Retrieve the details of events that are scheduled to take place after September 10, 2023, and have a Venue ID greater than 105.

Query: select \* from event\_1128 where date\_e > '10-Sep-2023' and venue\_ID > 105;

```
SQL> select * from Event_1128 where Eventdate > '10-Sep-2023' and VenueID > 105;
6
Comedy Show
01-OCT-23 01-OCT-23 07.30.00.000000 PM
106
Laugh your heart out at our comedy show.

7
Tech Conference
15-OCT-23 15-OCT-23 09.00.00.000000 AM
107
Join tech experts for informative sessions.

8
Dance Workshop
05-NOV-23 05-NOV-23 04.00.00.000000 PM
108
Learn various dance styles in this workshop.
```

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7. Retrieve the details of events that have a name containing "Concert" or "Show" in their name.

Query: select \* from event\_1128 where name like '%Concert%' or name like '%Show%';

```
SQL> select * from Event_1128 where Eventdate > '10-Sep-2023' and VenueID > 105;
        6
Comedy Show
01-OCT-23 01-OCT-23 07.30.00.000000 PM
        106
Laugh your heart out at our comedy show.

        7
Tech Conference
15-OCT-23 15-OCT-23 09.00.00.000000 AM
        107
Join tech experts for informative sessions.

        8
Dance Workshop
05-NOV-23 05-NOV-23 04.00.00.000000 PM
        108
Learn various dance styles in this workshop.

SQL> select * from Event_1128 where name like '%Concert%' or name like '%Show%';
        1
Concert in Park
15-AUG-23 15-AUG-23 06.00.00.000000 PM
        101
Enjoy a live concert in the city park.

        6
Comedy Show
01-OCT-23 01-OCT-23 07.30.00.000000 PM
        106
Laugh your heart out at our comedy show.
```

8. Increase the ticket prices for all booked tickets by 5 units.

Query: UPDATE Ticket\_1128 SET Price = Price + 5 WHERE Status = 'Booked';

```
SQL> UPDATE Ticket_1128 SET Price = Price + 5 WHERE Status = 'Booked';
3 rows updated.
```

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9. Reduce the ticket prices for EventID 2 by 10 units.

Query: UPDATE Ticket\_1128 SET Price = Price - 10 WHERE EventID = 2;

```
SQL> UPDATE Ticket_1128 SET Price = Price - 10 WHERE EventID = 2;
2 rows updated.
SQL> |
```

10. Double the ticket prices for tickets with a status of "Booked" and an EventID of 1.

Query: UPDATE Ticket\_1128 SET Price = Price \* 2 WHERE Status = 'Booked' AND EventID = 1;

```
SQL> UPDATE Ticket_1128 SET Price = Price * 2 WHERE Status = 'Booked' AND EventID = 1;
2 rows updated.
```

11. Increase the ticket prices for tickets with a status of "Booked" and a price less than 20 by 5 units.

Query: UPDATE Ticket\_1128 SET Price = Price + 5 WHERE Status = 'Booked' AND Price < 20;

```
SQL> UPDATE Ticket_1128 SET Price = Price + 5 WHERE Status = 'Booked' AND Price < 20;
6 rows updated.
```

12. Increase the VenueID for EventID 3 to 110.

Query: UPDATE Event\_1128 SET VenueID = 110 WHERE EventID = 3;

```
SQL> UPDATE Event_1128 SET VenueID = 110 WHERE EventID = 3;
1 row updated.
```



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13. Retrieve the details of events that are scheduled to take place on or after 20-09-2023.

Query: `SELECT * FROM Event_1128 WHERE Date >= TO_DATE('2023-09-20', 'YYYY-MM-DD');`

```
SQL> SELECT * FROM Event_1128 WHERE Eventdate >= TO_DATE('2023-09-20', 'YYYY-MM-DD')
      5
Food Festival
25-SEP-23 25-SEP-23 11.00.00.000000 AM
      105
A celebration of diverse cuisines.

      6
Comedy Show
01-OCT-23 01-OCT-23 07.30.00.000000 PM
      106
Laugh your heart out at our comedy show.

      7
Tech Conference
15-OCT-23 15-OCT-23 09.00.00.000000 AM
      107
Join tech experts for informative sessions.

      8
Dance Workshop
05-NOV-23 05-NOV-23 04.00.00.000000 PM
      108
Learn various dance styles in this workshop.
```

14. Delete the event with EventID 2.

Query: `delete from event_1128 where event_ID = 2;`

```
SQL> DELETE FROM Event_1128 WHERE EventID = 2;
```

```
1 row deleted.
```

15. Display the details of events that have a description containing the word "workshop."

Query: SELECT \* FROM Event\_1128 WHERE Description LIKE '%workshop%';

```
SQL> SELECT * FROM Event_1128 WHERE Description LIKE '%workshop%';
      8
Dance Workshop
05-NOV-23 01-SEP-23 04.00.00.000000 PM
      108
Learn various dance styles in this workshop.

SQL> SELECT * FROM Event_1128 WHERE Description LIKE '%workshop%';
      8
Dance Workshop
05-NOV-23 01-SEP-23 04.00.00.000000 PM
      108
Learn various dance styles in this workshop.
```

**Result:**

The basic sql commands are executed successfully and displayed using sql.